

Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop



PRESENTED BY:
Miller Environmental Group
538 Edwards Avenue
Calverton NY 11933
www.millerenv.com



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Miller Environmental Group

- Headquartered in Calverton, NY
- Over 30 Years of Experience
- Diverse Cleanup Project Experience
- Highly Skilled and Trained Personnel
- Permitted Hazardous Waste Transporter
 - MA, VT, NJ, NY, NYC, PA, OH, CT, DE
- NYS DEC Remediation Contractor
- Basic Ordering Agreement with BNL
- Established History with Peconic River Issues



Photo by: News Review



Brookhaven National Laboratory

Peconic River Remedial Alternatives Workshop

Specific Project History

- Long Island, NY
 - Shallow Water Sediment Removal via Vacuum/Guzzler & Pump System in a Lake Environment
- Inez, KY
 - Sediment Removal and Transport via Vacuum/Guzzler in a Creek and River Environment.



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Heavy Metals Recovery

- Deep Water Sediment Removal via Dredge
- Shallow Water Sediment Removal via Vacuum/Guzzler & Pump System



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Shallow Water Sediment and Heavy Metals Recovery



NYS DEC Project Oversight



**30 Acre Lake
10" of Sediment Removed**



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Coal Slurry Recovery

- 72 Acre Impoundment Collapsed
- Impact on (2) Creeks that feed into the Tug Fork River
- Sediment Removal via Vacuum/Guzzler & Pump System



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Sediment Removal Via Vacuum/Guzzler Equipment



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Coldwater Creek

- 6"- 8" of Sediment Removed via Vacuum/Guzzler & Pump System
- Approximately 16 miles of Contaminated Creek



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Sediment Control Structures



Gabion Weir Dams



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Sediment Control & Recovery



Transport and Disposal



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

Benefits of the MEG Alternative Approach

- Vacuum/Guzzler technology will minimize the associated impact on the upland areas of the Peconic River.**
- The Re-Suspension will be minimized through the use of Sediment Control Structures and/or Dewatering.**
- The use of Vacuum/Guzzler technology has unique application to the Peconic River Remediation Project due to its selective removal of Sediment as opposed to gross removal with subsequent environmental damage.**
- Vacuum/Guzzler Technology is only a component of the entire project, however it is an effective method considering the sensitive environment to be remediated.**



Brookhaven National Laboratory Peconic River Remedial Alternatives Workshop

CONTACT INFORMATION

George Wallace, Manager Client Services
Miller Environmental Group
538 Edwards Avenue
Calverton, NY 11933
gwallace@millerenv.com
631-369-4900 ext 241
631-369-4909 fax

www.millerenv.com

